

# Converting Colors

XYZ(48.2255, 40.2868, 15.9645)

Have a look what the booklet for  
XYZ(48.2255, 40.2868, 15.9645)  
contains.

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# Color

**XYZ(48.2521, 40.3568,  
16.0729)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	EF945F
RGB	239, 148, 95
RGB Percent	94%, 58%, 37%
CMY	0.0627, 0.4196, 0.6274
CMYK	0.00, 0.38, 0.60, 0.06
HSL	22°, 82%, 65%
HSV	22°, 60%, 94%
XYZ	48.2521, 40.3568, 16.0729
YIQ	169.1670, 71.2490, 2.8090

# Conversions

## Conversions Part 2

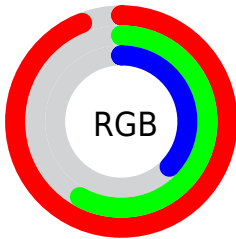
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	239, 179, 95
Decimal	15701087
CIE Lab	69.72, 29.37, 42.10
CIE LCh	70, 51.332, 55.096
Yxy	40.3568, 0.4609, 0.3855
Android (android.graphics.Color)	4293891167 (0xFFEF945F)
YUV	169.1670, -36.5643, 61.2435
Hunter-Lab	63.5270, 24.4079, 29.4680

# Details

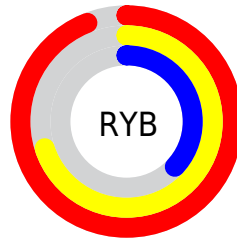
The XYZ color **48.2521, 40.3568, 16.0729** is a light color, and the websafe version is hex **FF9966**. The color can be described as light muted orange. A complement of this color would be **37.8571, 43.7803, 88.1161**, and the grayscale version is **37.9465, 39.9226, 43.4757**.

A 20% lighter version of the original color is **67.8624, 66.0785, 36.7814**, and **23.2664, 18.1467, 4.8612** is the 20% darker color. If you saturate the color by 10%, you get **45.1115, 35.5558, 10.4637**, and if you desaturate by 10%, it is **52.0369, 45.9134, 23.5413**.

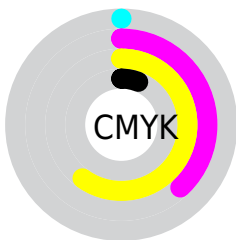
# Distribution



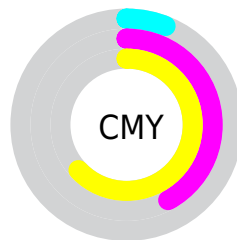
- Red (94%)
- Green (58%)
- Blue (37%)



- Red (94%)
- Yellow (70%)
- Blue (37%)



- Cyan (0%)
- Magenta (38%)
- Yellow (60%)
- Black (6%)



- Cyan (6%)
- Magenta (42%)
- Yellow (63%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 48.2521, 40.3568, 16.0729 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.


Similar to the brightness gradients but the following saturation gradients show a change of the XYZ color 48.2521, 40.3568, 16.0729 by changing the saturation by 10% instead.





 48.2521, 40.3568,  
16.0729


 48.2521, 40.3568,  
16.0729


370.3565,  
347.6251, 241.6319


 34.2387, 27.8168,  
9.4208


 86.7871, 75.7065,  
37.4933


 23.2408, 18.1876,  
4.9161


 112.0393, 99.2851,  
53.0987

 14.8931, 11.0848,  
2.1403


 141.7685,  
127.3120, 72.5256

 8.8302, 6.1239,  
0.6396

 176.3400,  
160.1716, 96.1925

 4.6868, 2.9206,  
0.0000

216.1192,  
198.2483, 124.5181

 2.0976, 1.0904,  
0.0000

261.4715,

 0.6879, 0.0000,

241.9266, 157.9208

0.0000

312.7621,  
291.5907, 196.8192

■ 0.0000, 0.0000,  
0.0000

■ 48.2521, 40.3568,  
16.0729

■ 48.2521, 40.3568,  
16.0729

■ 45.1115, 35.5558,  
10.4637

■ 52.0369, 45.9134,  
23.5413

■ 42.5688, 31.4678,  
6.5410

■ 56.5019, 52.2529,  
33.0156

■ 40.5746, 28.0546,  
4.1031

■ 61.6834, 59.4086,  
44.6306

■ 39.0841, 25.3260,  
2.8285

■ 67.6142, 67.4099,  
58.5082

■ 74.3247, 76.2845,  
74.7615

■ 81.8439, 86.0589,  
93.4957

■ 89.0007, 96.2791,  
108.5006

■ 89.4064, 97.0906,  
108.6359

# Harmonies

## Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



54.7333, 40.3568, 27.2430



48.2521, 40.3568, 16.0729



39.7410, 40.3568, 12.2892

# Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



48.2521, 40.3568, 16.0729



24.5328, 40.3568, 40.1426



45.5458, 40.3568, 99.8128

# Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



48.2521, 40.3568, 16.0729



37.8571, 43.7803, 88.1161

# Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



37.0074, 40.3568, 107.1651



48.2521, 40.3568, 16.0729



25.6254, 40.3568, 66.3614

# Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



48.2521, 40.3568, 16.0729



26.6841, 40.3568, 22.6050



29.9181, 40.3568, 93.2008



53.0193, 40.3568, 75.6915



# Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



48.2521, 40.3568, 16.0729



34.3433, 40.3568, 12.9032



29.9181, 40.3568, 93.2008



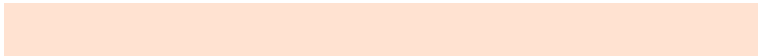
42.6738, 40.3568, 104.6266

# Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



48.2531, 40.3589, 16.0737



79.9562, 80.2588, 71.6639



48.5730, 30.0890, 49.8137



16.6525, 16.5634, 14.2369



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



48.2531, 40.3589, 16.0737



51.6203, 40.1803, 11.0637



63.2028, 70.2583, 21.0569



16.2493, 16.7117, 16.5190



21.7135, 14.2250, 1.6013



1.8983, 1.3672, 0.1638



# Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



37.8571, 43.7803, 88.1161



38.5369, 44.2927, 101.1260



26.3394, 20.7450, 84.2769



15.7298, 16.8938, 20.1534



14.8572, 15.9387, 47.4213



1.3306, 1.5152, 3.9765



# Previews

## White Background



This preview shows how the XYZ color 48.2521, 40.3568, 16.0729 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 48.2521, 40.3568, 16.0729 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 48.2521, 40.3568, 16.0729**

## **Background**



This preview shows how black text looks on a background with the XYZ color 48.2521, 40.3568, 16.0729.



This preview shows how white text looks on a background with the XYZ color 48.2521, 40.3568,



# Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



### Original Color

48.2521, 40.3568, 16.0729

### Protanopia

37.5046, 40.6699, 18.7053

### Deuteranopia

41.3235, 40.5224, 15.7688



## Tritanopia

52.0729, 40.3388, 34.3198

# Trichromacy



## Original Color

48.2521, 40.3568, 16.0729

## Protanomaly

40.8510, 40.2363, 17.6699

## Deuteranomaly

43.7178, 40.4597, 15.8612

## Tritanomaly

50.6879, 40.4625, 26.6112

# Monochromacy



## Original Color

48.2521, 40.3568, 16.0729

## Achromatopsia

37.7116, 39.6755, 43.2066

## Achromatomaly

39.8755, 38.9121, 31.0003

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 48.2521, 40.3568, 16.0729 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(239, 148, 95)` looks like.

```
.text, #text, p{  
    color:rgb(239, 148, 95)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(239, 148, 95) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(239, 148, 95) }
```

## Border

The CSS property to change the border of an element to XYZ 48.2521, 40.3568, 16.0729 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(239, 148, 95) }
```



If only the border color should be changed use the property `border-color`.

```
.border{ border-color:rgb(239, 148, 95) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel `rgb(239, 148, 95)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(239, 148, 95); -webkit-box-  
shadow:4px 4px 4px 4px rgb(239, 148, 95);  
box-shadow:4px 4px 4px 4px rgb(239, 148,  
95) }
```

# Background

The CSS property to change the background color of an element to XYZ 48.2521, 40.3568, 16.0729 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(239, 148, 95) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(239,  
148, 95) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

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